Dependencies and Artifacts with Azure DevOps

John Savill

PRINCIPAL CLOUD SOLUTION ARCHITECT

@NTFAQGuy   www.savilltech.com

Module Overview

Understanding dependencies

Using artifacts

Dependencies

Open Source

Publicly available

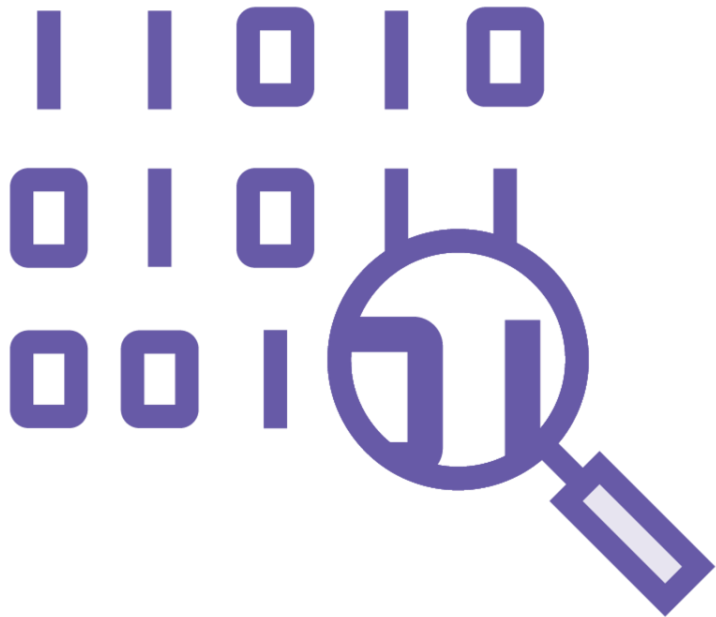**Consider vulnerabilities and licensing**

Inner Source

Internal only

Greater confidence in health

Identifying Dependencies

There are numerous package systems and formats available which are hard to practically restrict

The source code for projects will identify dependencies

GitHub has native dependabot and dependency graph

WhiteSource is a well-known solution to detect open-source components for vulnerability and license tracking
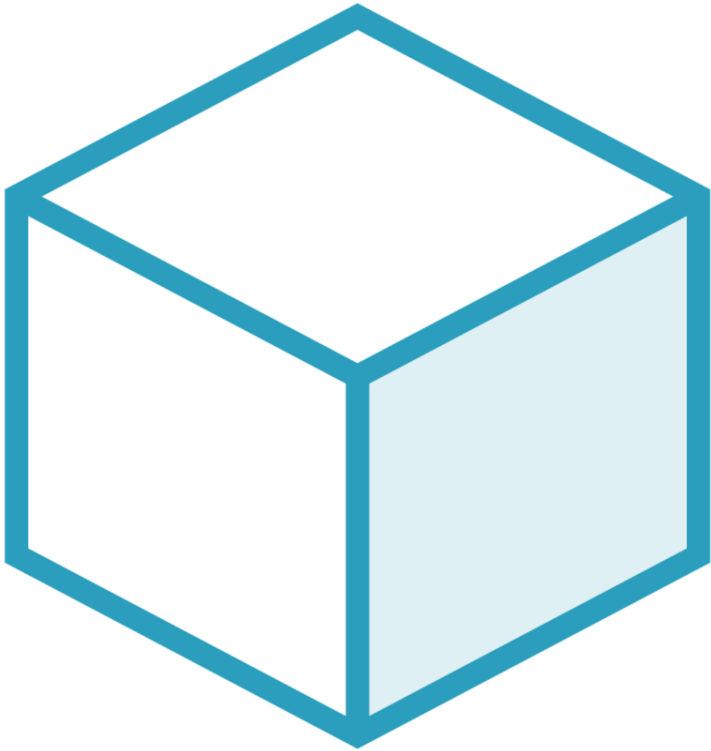
Common Types of Package Manager

A package is some kind of distributable unit of software

- NuGet - .NET
- npm – JavaScript
- Maven – Java, Scala
- PyPi – Python
- Universal – Can include anything

Exposed via package feeds which are used by package feed managers

Azure Artifacts

- Provides an organizational or project level feed

- Can be used to store generated packages and cache from external feeds

- Easily integrates with the core types of package management client

- Supports views to guide usage to correct version

- Permissions available to control access

Documentation Generation

Utilize the development methodology work items with good information

When performing commits, pull requests reference the item

There are numerous solutions that can then pull the detail from those related items when creating a delivery to automate release notes

Summary

Understanding dependencies

Using artifacts

Thank you
and
good luck!